

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP00/03896

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl<sup>7</sup> C12N15/48, C12Q1/68, C12Q1/70, G01N33/569, G01N33/50

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> C12N15/48, C12Q1/68, C12Q1/70, G01N33/569, G01N33/50

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Genbank/EMBL/DDBJ/GeneSeq,  
MEDLINE (STN), WPI (DIALOG), BIOSIS (DIALOG)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No. |
|-----------|---|-----------------------|
| Y         | SATO, H., et al., "Evolution and Biological Characterization of Human Immunodeficiency Virus Type 1 Subtype E gp120 V3 Sequences following Horizontal and Vertical Virus Transmission in a Single Family", JOURNAL OF VIROLOGY (1999), Vol.73, No.5, pp.3551-3559 | 1-18                  |
| Y         | LEMONDIOS, G.K., et al., "Genetic Analysis of Human Immunodeficiency Virus Type 1 Strains from Patient in Cyprus: Identification of New Subtype Designated Subtype I", JOURNAL OF VIROLOGY (1995), Vol.69, No.10, pp.6122-6130                                    | 1-18                  |
| Y         | DUMONCEAUX, J., et al., "Spontaneous Mutations in env Gene of the Human Immunodeficiency Virus Type 1 NDK Isolate Are Associated with a CD4-Independent Entry Phenotype", JOURNAL OF VIROLOGY (1998), Vol.72, No.1, pp.512-519                                    | 1-18                  |
| Y         | McDONALD, R. A., et al., "Evolution of Human Immunodeficiency Virus Type 1 env Sequence Variation in Patients with Disease Progression and T-Cell Function", JOURNAL OF VIROLOGY (1997), Vol.71, No.3, pp.1871-1879   | 1-18                  |

 Further documents are listed in the continuation of Box C. See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"E" earlier document but published on or after the international filing date

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"O" document referring to an oral disclosure, use, exhibition or other means

"&amp;" document member of the same patent family

"P" document published prior to the international filing date but later than the priority date claimed

Date of the actual completion of the international search  
29 September, 2000 (29.09.00)Date of mailing of the international search report  
10 October, 2000 (10.10.00)Name and mailing address of the ISA/  
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No. |
|-----------|---|-----------------------|
| Y         | BRUISTEN, S., et al. "Detection of HIV-1 distribution in different blood fractions by nucleic acid amplification assays", AIDS Res. Hum. Retroviruses (1993), Vol.9, No.3, pp.259-265 | 1-18                  |